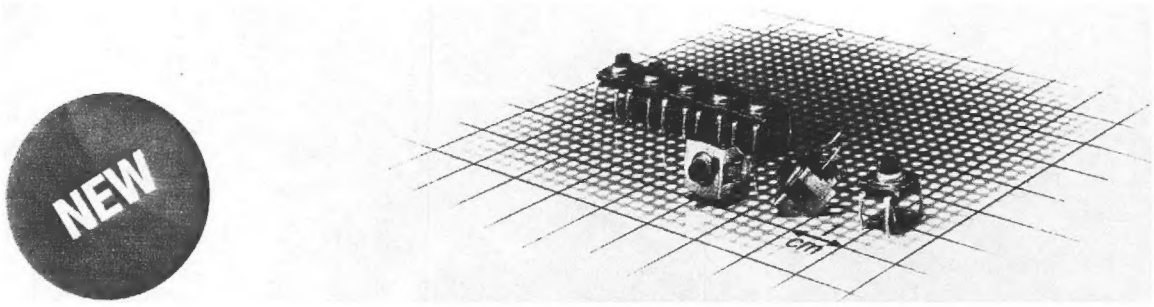
Jameco Part number 155272

KSI Tact Switch with Soft Actuator



The KSI with soft actuator is a miniature tact switch using the single pole normally open contact of the KSA family and equipped with a silicone actuator.

This new version is designed for all types of applications where a more distinctive tactile effect is required with an actuating force of 3N [300 grams] or 1.1N [110 grams].

Main applications

Automative, computer mouse, automation ...

Main features

- Electrical data similar to the KSA
- Switching travel: 3N version: 1.1 mm [.043 inch] and 1.1N version: 0.4 mm [.016 inch]
- Total travel: 1.45 mm [.057 inch]
- Actuation force: 3N [300 grams] or 11N [110 grams]
- Actuation force increased of 0.3N [30 grams] for gold contacts
- Sealed against flux
- Salt mist resistance: 96 hours
- Delivered in boxes of 500 pieces

Option

- Ground terminal

Construction			
Function		Momentary	
Contact arrangement		1 make contact = SPST. NO	
Distance between button centers, min.		7.62 mm [.300 inch]	
Terminals		PC pins	
Electrical data		Silver	Gold
Switching power max.		1 VA	0.2 VA
Switching voltage min./max.		20 mV/50 V	20 mV/50 V
Switching current min./max.		1 mA/50 mA	1 mA/10 mA
Dielectric strength (50 Hz, 1 Min.)		• 300 V rms	• 300 V rms
Operating life:	3N version:	• 10%r5%r operations	• 10%r5%r operations
	1.1N version:	• 5 x 10%r5%r operations	• 5 x 10%r5%r operations
Contact resistance		• 50 mΩ	• 50 mΩ
Insulation resistance		• 10%r11%r Ω	• 10%r11%r Ω
Bounce-time		• 1 ms	• 1 ms
Mechanical data			
Total travel		1.45 ± 0.2 mm [.057 ± .008 inch]	
Switching travel	3N version:	1.1 ± 0.2 mm [.043 ± .008 inch]	
	1.1N version:	0.4 ± 0.15 mm [.016 ± .006 inch]	
Operating force		1.1N [110 grams] ± 25%	
		3N [300 grams] ± 25%	
Maximum admissable operating force		40N [4000 grams]	
Solderability			
KSI is protected against flux and is compatible with the following soldering processes: - Fluxing of PCB bottom side - Preheating at 85°C		- Wave soldering (Pb/Sn 40-60) 250°C 2 sec. - Cooling down to ambient temperature - Eventual cleaning by brushing on soldered Side. TMS Freon to be avoided.	
Further data			
Contact material		Silver or gold	
Operating temperature	silver contacts	- 40°C to + 90°C	
	gold contacts	- 40°C to + 125°C	
Storage temperature	silver contacts	- 55°C to + 90°C	
	gold contacts	- 55°C to + 125°C	

Ordering code		1	2	3	4	5	6	7
	Example:	KS	I	0	M	4	1	0
1	**Designation:** KS							
2	**Type (soft actuator):** I							
3	**Ground terminal:** 0 = without, 1 = with							
4	**Insertion:** M = manual, V = vertical							
5	**Operation force:** 0 = 1.1 N [110 grams] 4 = 3 N [300 grams]							
6	**Temperature range:** 1 = low: – 40°C to + 90°C (silver contacts), 3 = high: – 40°C to + 125°C (gold contacts)							
7	**Sealed:** 0 = against flux, 1 = totally sealed							

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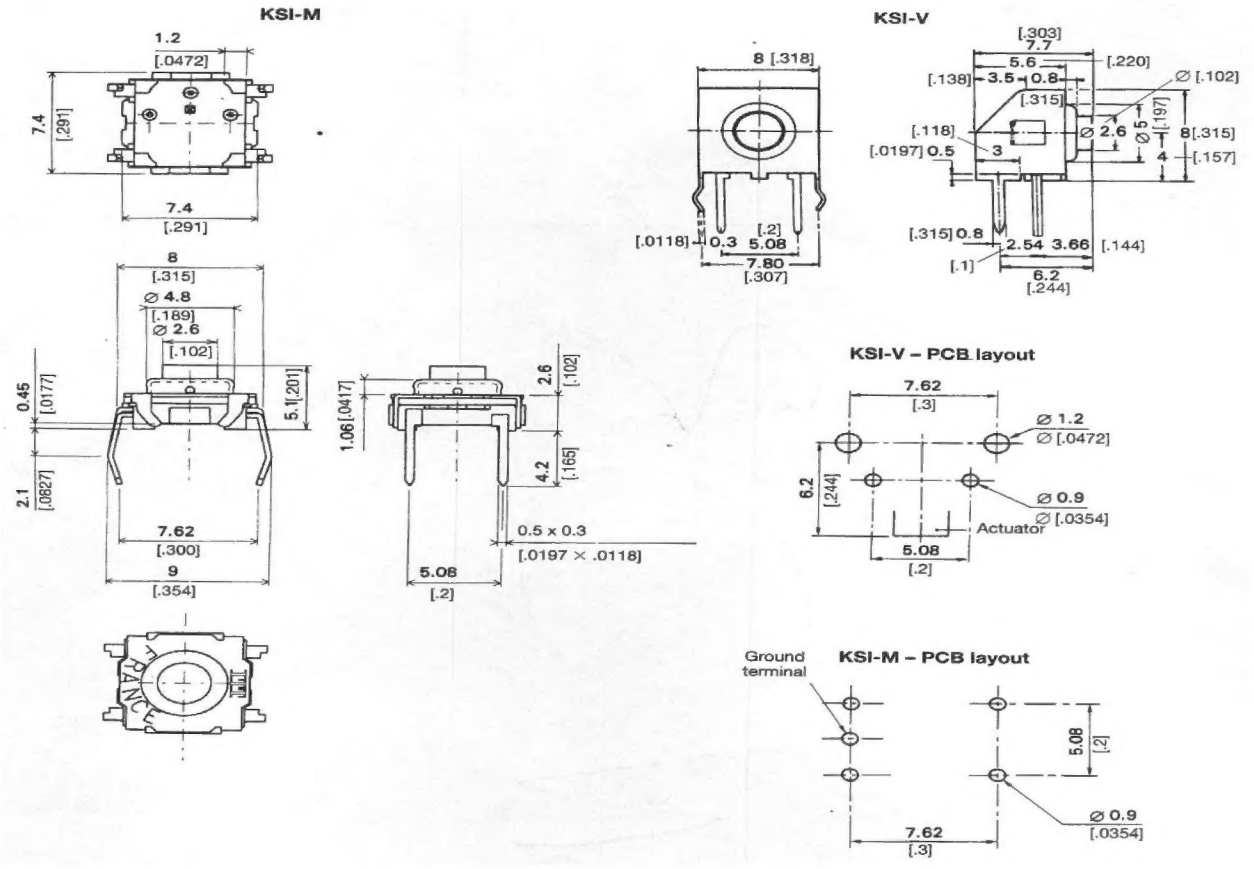
KSI Fact Switch with Soft Actuator

Dimensional Drawings Dimensions in mm [inch]



Curve and PCB mounting